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WOODCOCK WASHBURN LLP ONE LIBERTY PLACE - 46TH FLOOR PHILADELPHIA, PA 19103			NGUYEN, CUONG H	
			ART UNIT	PAPER NUMBER
			3661	

DATE MAILED: 01/11/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	09/482,932	PEINADO ET AL.	
	Examiner	Art Unit	
	CUONG H. NGUYEN	3661	

- The MAILING DATE of this communication appears on the cover sheet with the correspondence address -

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 21 September 2004.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 106-115,117-119,122-138,140-142,145-158,162 and 163 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 106-115,117-119,122-138,140-142,145-158,162 and 163 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date: _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date: _____ | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. This Office Action is the answer to the REMARK received at USPTO on 9/21/2004.
2. Claims 106-115, 117-119, 122-138, 140-142, 145-158, 162, and 163 are pending in this application.

Response:

3. Applicants' arguments in the received REMARK with respect to independent claims 106, 159, and 152 under 35 USC 101 have been fully considered. The rejections on 35 USC 101 are withdrawn. However, the art rejections based on 35 USC 103(a) are unpersuasive because:

- Stefik DID suggests a license store for storing a license; that license is attached to a digital work (see Stefik, 4:40-43 and claim 1).
- Stefik DID check the status of a license e.g., a state store (see Stefik, fig.7 ref. 704; and 10:1-12, 35-44), inherently comprising a license evaluation function.
- Stefik suggests that private-public key pairs can be placed in repository to perform decryptions; and the claimed "black box" is anything that contains decrypt keys.

Applicants argue that the rejections are *prima facie* improper. The examiner respectfully submits that evidences are shown for these rejections, and no blanket statement is used for rejections. The cited references have similar structured components to do similar functions as in pending claims; therefore, pending claims are obvious with one of ordinary skill in the art.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. § 103(a) which forms the basis for all obviousness rejections set forth in this Office Action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 106-109 are rejected under 35 U.S.C. § 103(a) as being unpatentable over in view of Stefik (US Pat. 5,715,403).

A. Re. To claim 106: It is rejected under 35 U.S.C. § 103(a) as being unpatentable over in view of Stefik (US Pat. 5,715,403).

Stefik's patent obviously suggests a digital rights management (DRM) system operating on a computing device, the system comprising:

- a license store for storing one or more digital licenses on the computing device;
- a license evaluator for determining whether any licenses stored in the license store correspond to the requested digital content, for determining whether any such corresponding licenses are valid, for reviewing license rules in each such valid license, and for determining based on such reviewed license rules whether such license enables the requesting user to render the requested digital content in the manner sought, and

- a state store for maintaining state information corresponding to each license in the license store, the state information being created and updated by the license evaluator as necessary (see Stefik, 2:21-43).

Stefik does not expressly disclose exact words as claimed; however, it would have been obvious for one with ordinary skill in the art to implement

Stefik's patent to perform such specific functions, because Stefik suggests all required components using in the same environment as claimed.

B. Re. To claim 107: Stefik's patent obviously suggests a DRM system wherein the license evaluator is a secured/trusted component (i.e., only authorized person having access).

C. Re. To claim 108: Stefik's patent obviously suggests a DRM system wherein the license evaluator runs in a protected environment on the computing device such that the user is denied access to such license evaluator (i.e., only authorized person having access).

D. Re. To claim 109: Stefik's patent obviously suggests a DRM system wherein the license evaluator effectuates acquiring an enabling, valid license if no such enabling, valid license is located and if such enabling, valid license is available (see Stefik, 2:29-34, and "Since licenses are themselves digital works, the same mechanisms give the creators control over distributors by charging for licenses and putting time limits on their validity.").

6. Claims 110-112 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Stefik (US Pat. 5,715,403), in view of Krishnan et al. (US Pat. 6,073,124).

A. Re. To claim 110: The rationales and reference for a 35 USC 103(a) rejection of claim 109 are incorporated.

Krishnan's patent also suggests a DRM system wherein the license evaluator refers to license acquisition information attached to the digital content during effectuating acquiring an enabling, valid license, the license acquisition information including data selected from a group consisting of types of licenses

available and a network site at which a license server may be accessed (see Krishnan et al., Fig.11 and “The DCS client includes a download file, a user interface library, a purchasing library, a secured content file, a DCS security information file, and licensing code. There is a download file for each item of merchandise that can be distributed electronically, which contains an executable boot program. The boot program is responsible for determining what components need to be downloaded for a requested item of merchandise. The secured content file contains the content that corresponds to the requested item of merchandise. The content may be a computer program, data, or a combination of both. For the purposes of this specification, "secure" or "secured" implies the use of cryptography or other types of security, including the use of hardware. One or more of the remaining components can be shared by several items of merchandise. For example, the user interface library, which defines a user interface used to purchase and license merchandise, may be specific to an item of merchandise or may be uniform for an entire online purchasing system. The purchasing library, licensing code, and DCS security information file are used to interact with the DCS server to properly license requested merchandise. In particular, the licensing code ensures that the requested merchandise is not operable by the customer until it has been properly licensed by the DCS server...”

Or “...The DCS server 302 includes a content supplier server 306, a licensing and purchasing broker (server) 307, a password generation data repository 308, and a payment processing function 309. The licensing and purchasing broker 307 includes a separate licensing library 310 (passgen.dll),

which contains the code for generating an appropriate license in response to a request from the virtual store. The licensing library 310 uses the password generation data repository 308 to generate an electronic license”).

B. Re. To claim 114: The rationales and reference for a 35 USC 103(a) rejection of claim 110 are incorporated.

Stefik's patent in view of Krishnan suggests a license evaluator receives an enabling, valid license from the license server and stores the received license in the license store (see Krishnan et al., the abstract).

C. Re. To claim 111: : The rationales and reference for a 35 USC 103(a) rejection of claim 110 are incorporated.

Krishnan's patent also suggests a DRM system wherein the license evaluator exchanges information with the license server during acquisition of an enabling, valid license (see Krishnan et al., "The DCS server generates an electronic license certificate, which contains license parameters (e.g., terms) that are specific to the requested merchandise and to a desired purchasing option (such as trial use, permanent purchase, or rental). The DCS server then sends the generated electronic license certificate to the DCS client. Once a valid electronic license certificate for the requested merchandise is received by the DCS client, the merchandise is made available to the customer for use in accordance with the license parameters contained in the electronic license certificate.").

D. Re. To claim 112: : The rationales and reference for a 35 USC 103(a) rejection of claim 110 are incorporated.

Krishnan's patent also suggests a DRM system comprising a structure for performing encryption and decryption functions as part of the evaluation of any license, the black box having a first unique public / private key pair that is employed as part of the evaluation of any license, wherein the license server refuses to issue a license to the license evaluator if the black box is not current (see Krishnan et al., "Once the potential customer is satisfied, the customer can pay for and license the application program for more permanent use. If an application program is distributed using the wrapping technique to potential customers for the purpose of try and buy licensing,

then, when the application program is decrypted and stored in a temporary file, a software pirate can determine how to enable the disabled features or how to remove the license expiration data"

And "...certificate ("ELC") with licensing parameters that correspond to a particular item of merchandise. An electronic license certificate is encrypted electronic data that provides information that can be utilized to determine whether a particular customer is authorized to execute the merchandise...", and Figs. 9, 11).

E. Re. To claim 119: The rationales and reference for a 35 USC 103(a) rejection of claim 116 are incorporated.

Krishnan also teaches a DRM system wherein a box works in conjunction with the license evaluator to decrypt/encrypt information as part of the evaluation of any license (see Krishnan et al., "Once the potential customer is satisfied, the customer can pay for and license the application program for more permanent use. If an application program is distributed using the wrapping technique to potential customers for the purpose of try and buy licensing, then, when the application program is decrypted and stored in a temporary file, a software pirate can determine how to enable the disabled features or how to remove the license expiration data"

And "...certificate ("ELC") with licensing parameters that correspond to a particular item of merchandise. An electronic license certificate is encrypted electronic data that provides information that can be utilized to determine whether a particular customer is authorized to execute the merchandise...", and Figs. 9, 11).").

F. Re. To claim 123-124: The rationales and reference for a 35 USC 103(a) rejection of claim 106 are incorporated.

A DRM system wherein a license store is on a computing device. The examiner submits that Krishnan et al. suggest this feature.

It would be obvious for one with ordinary skill in the art to implement Stefik's patent, Krishnan et al.'s ideas to comprise such specific features, because cited references were in the same specific field of endeavor, and components in this system claim must be distinguished from cited prior art in terms of structure rather than function.

I. Re. To claim 126: The rationales and reference for a 35 USC 103(a) rejection of claim 106 are incorporated.

Stefik does not expressly disclose a DRM system wherein the state store is a trusted component. The examiner submits that "state store" MUST be a trusted component in this field of application; therefore, this claim's feature is quite obvious.

It would be obvious for one with ordinary skill in the art to implement Stefik's patent, and Krishnan et al.'s ideas, to comprise such specific features, because cited references were in the same specific field of endeavor, and components in this system claim must be distinguished from cited prior art in terms of structure rather than function(s).

J. Re. To claim 127: The rationales and reference for a 35 USC 103(a) rejection of claim 126 are incorporated.

Stefik teaches a DRM system wherein the state store runs in a protected environment on the computing device such that the user is denied access to such state store (e.g., DRM system that a user has no access to a state store). The examiner submits that there are modules in a computer system that only allow access to "need-to-know" people, e.g., content providers .etc.).

It would be obvious for one with ordinary skill in the art to implement **Stefik's patent, Krishnan et al.'s ideas**, to comprise such specific features, because cited references were in the same specific field of endeavor, and components in this system claim must be distinguished from cited prior art in terms of structure rather than function(s).

K. Re. To claim 128: The rationales and reference for a 35 USC 103(a) rejection of claim 106 are incorporated.

Stefik and Krishnan's DRM system do not expressly disclose that the state store has state information of each license (e.g., active or in-active state).

The examiner submits that artisan would appreciate that a DRM system would have a feature of storing this "state" information because this is necessary in managing in knowing any license's condition.

It would be obvious for one with ordinary skill in the art to implement Stefik's patent with Krishnan et al.'s ideas to perform such specific functions, because Stefik & Krishnan et al. were in the same specific field of endeavor, and components in this system claim must be distinguished from cited prior art in terms of structure rather than function.

7. Claims 113-115 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Stefik (US Pat. 5,715,403), in view of Krishnan et al. (US Pat. 6,073,124), further in view of Ginter et al. (US Pat. 5,892,900).

A. Re. To claim 113: The rationales and reference for a 35 USC 103(a) rejection of claim 112 are incorporated.

Stefik's patent in view of Krishnan suggests a DRM system wherein the license evaluator requests a current black box from a black box server, receives the requested black box, and installs the received black box on the computing device.

They may not expressly disclose a structure that having a second unique public/private key pair different from the first unique public/private key pair.

However, Ginter et al. also suggest about a structure that having a second unique public/private key pair different from the first unique public/private key pair (see Ginter et al., claim 65: "...a secure storage area storing information at least some of which is encrypted, said information including one or more applications programs, each of said applications programs comprising one or more applications modules, and at least two encrypted applications modules, one of said encrypted applications modules having been encrypted using a first encryption key and a second of said encrypted applications modules having been encrypted using a second encryption key different from said first encryption key, and a non-secure storage area storing information;").

It would be obvious for one with ordinary skill in the art to implement Stefik's patent with Krishnan et al.'s ideas, and Ginter et al.'s disclosure to comprise such specific features, because Stefik & Krishnan et al., & Ginter et al., were in the same specific field of endeavor, and components in this system claim must be distinguished from cited prior art in terms of structure rather than function.

B. Re. To claim 115: The rationales and reference for a 35 USC 103(a) rejection of claim 106 are incorporated.

Stefik's patent also suggests a DRM system wherein in determining whether the license enables the requesting user to render the requested digital content in the manner sought, the license evaluator has access to data on the computing device, such data being selected from a group consisting of an identification of the computing device and/or particular aspects thereof, an identification of the user and/or particular aspects thereof, an identification of an application to be employed to render the digital content and/or particular aspects thereof; a system clock; and combinations thereof (see Stefik 2:21-43, "A system for ensuring that licenses are in place for using licensed products is described in PCT Publication WO 93/01550 to Griswold entitled "License Management System and Method." The licensed product may be any electronically published work but is most effective for use with works that are used for extended periods of time such as software programs. Griswold requires that the licensed product contain software to invoke a license check monitor at predetermined time intervals. The license check monitor generates request datagrams which identify the licensee. The request datagrams are sent to a license control system over an appropriate communication facility. The license control system then checks the datagram to determine if the datagram is from a valid licensee. The license control system then sends a reply datagram to the license check monitor indicating denial or approval of usage. The license control system will deny usage in the event that request datagrams go unanswered after a predetermined period of time (which may indicate an unauthorized attempt to use the licensed product). In this system, usage is managed at a central location by the response datagrams. So for example if license fees have not been paid, access to the licensed product is terminated").

8. Claims 117-119, 121-128 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Stefik (US Pat. 5,715,403), in view of Krishnan et al., and further in view of Ginter et al. (US Pat. 5,892,900).

A. Re. To claim 117: The rationales and reference for a 35 USC 103(a) rejection of claim 116 are incorporated.

Stefik's patent does not expressly disclose a "black-box".

However, Ginter et al. disclose about a DRM system wherein a black box is a trusted component (see Ginter et al., "A distributed, secure, "virtual black box" comprised of nodes located at every user (including VDE content container creators, other content providers, client users, and recipients of secure VDE content usage information) site. The nodes of said virtual black box normally include a secure subsystem having at least one secure hardware element (a semiconductor element or other hardware module for securely executing VDE control processes), said secure subsystems being distributed at nodes along a pathway of information storage, distribution, payment, usage, and/or auditing.").

It would be obvious for one with ordinary skill in the art to implement Stefik's patent, Krishnan et al.'s ideas, and Ginter et al.'s disclosure to comprise such specific features, because cited references were in the same specific field of endeavor, and components in this system claim must be distinguished from cited prior art in terms of structure rather than function.

B. Re. To claim 118: The rationales and reference for a 35 USC 103(a) rejection of claim 117 are incorporated.

Stefik's patent also obviously suggests a DRM system wherein a structure/"black box" runs in a protected environment on a computing device such that the user is denied access to such structure (i.e., only authorized person having access).

C. Re. To claim 121: The rationales and reference for a 35 USC 103(a) rejection of claim 116 are incorporated.

Ginter also teaches a structure/"black-box" decrypts the protected digital content when the license evaluator determines that a license in fact enables the requesting user to render the requested digital content in the manner sought (see Ginter et al., "...Traveling objects may come with a quite limited usage related budget so that a user may use, in whole or part, content (such as a computer program, game, or database) and evaluate whether to acquire a license or further license or purchase object content..."

Or "...In this example, the Video Library 3402 control information allows publishers to extract objects from the Video Library product container and content control information enabling use of each extracted object during a calendar year if the object has a license cost of \$50 or less, and is shorter than 45 minutes in duration, and 20,000 copies of each of any other extracted objects, and further requires all video objects to be VDE fingerprinted upon decryption.").

It would be obvious for one with ordinary skill in the art to implement Stefik's patent, Krishnan et al.'s ideas, and Ginter et al.'s disclosure to comprise such specific features, because cited references were in the same specific field of endeavor, and components in this system claim must be distinguished from cited prior art in terms of structure rather than function.

D. Re. To claim 122: The rationales and reference for a 35 USC 103(a) rejection of claim 121 are incorporated.

Krishnan also teaches a structure/"black box" works in conjunction with the license evaluator to decrypt/encrypt information as part of the evaluation of any license, and wherein the black box has a unique public/private key pair (PU-BB, PRBB) that is employed as part of the evaluation of any license, and that is also employed to obtain a decryption key (see Krishnan et al., "Once the potential

customer is satisfied, the customer can pay for and license the application program for more permanent use. If an application program is distributed using the wrapping technique to potential customers for the purpose of try and buy licensing, then, when the application program is decrypted and stored in a temporary file, a software pirate can determine how to enable the disabled features or how to remove the license expiration data"

And "...certificate ("ELC") with licensing parameters that correspond to a particular item of merchandise. An electronic license certificate is encrypted electronic data that provides information that can be utilized to determine whether a particular customer is authorized to execute the merchandise...", and see Figs. 9, 11). (Note: **Ginter et al.**, also suggest claim's limitation).

It would be obvious for one with ordinary skill in the art to implement **Stefik's patent**, **Krishnan et al.'s ideas**, and **Ginter et al.'s disclosure** to comprise such specific features, because cited references were in the same specific field of endeavor, and components in this system claim must be distinguished from cited prior art in terms of structure rather than function(s).

It would be obvious for one with ordinary skill in the art to implement **Stefik's patent**, **Krishnan et al.'s ideas**, and **Ginter et al.'s disclosure** to comprise such specific features, because cited references were in the same specific field of endeavor, and components in this system claim must be distinguished from cited prior art in terms of structure rather than function(s).

G. Re. To claim 125: The DRM system of claim 124 wherein the memory drive is selected from a group consisting of a hard disk drive, and a network drive. The examiner submits that **Krishnan et al.** suggest this feature; further more, any memory drive would have similar claimed storage capability.

It would be obvious for one with ordinary skill in the art to implement **Stefik's** patent, **Krishnan** et al.'s ideas, and **Ginter** et al.'s disclosure to comprise such specific features, because cited references were in the same specific field of endeavor, and components in this system claim must be distinguished from cited prior art in terms of structure rather than function(s).

9. The examiner also submits that claimed features contain capabilities of cited computer systems for digital rights applications, because these claimed limitations are very broad that they are recognized to be included as software components of a digital rights management system (e.g., **Stefik's** invention); cited prior art limitations are not necessarily spelled-out exactly claimed languages, because cited prior art is also directed to a similar system for managing digital rights. **Krishnan**, **Stefik**, **Ginter** et al, or IDS references are not limited to the described embodiments in their inventions. It is reasonable that modifications of the described method and system of the cited prior art would be apparent to those skilled in the art without departing from the scope and spirit of their inventions. Although their inventions have been described in connection with specific preferred embodiments, it should be understood that their invention as claimed should not be limited to such specific embodiments.

It would have been obvious to one of ordinary skill in the art at the time of invention to implement the system of **Stefik**, **Krishnan**, **Ginter** et al. with suggestions readily available in the art submitted in the IDS, because artisan in this specific field would appreciate these disclosed information for improvement of communication and security in a digital right management system (the examiner reminds that claims directed to apparatus/system must be distinguished from the prior art in terms of structure rather than function).

10. Re. To claim 129, 152: This claim contains similar features as in claim 106.

Therefore, similar rationales and references set forth are applied for rejection under 35 U.S.C. § 103(a).

11. Re. To claim 130: This claim contains similar features as in claim 107.

Therefore, similar rationales and references set forth are applied for rejection under 35 U.S.C. § 103(a).

12. Re. To claim 131: This claim contains similar features as in claim 108.

Therefore, similar rationales and references set forth are applied for rejection under 35 U.S.C. § 103(a).

13. Re. To claims 132, 153: These claim contain similar features as in claim 109.

Therefore, similar rationales and references set forth are applied for rejection under 35 U.S.C. § 103(a).

14. Re. To claims 133, 154: These claims contain similar features as in claim 110. Therefore, similar rationales and references set forth are applied for rejection under 35 U.S.C. § 103(a).

15. Re. To claim 134, 155: These claims contain similar features as in claim 111. Therefore, similar rationales and references set forth are applied for rejection under 35 U.S.C. § 103(a).

16. Re. To claim 135, 156: These claims contain similar features as in claim 112. Therefore, similar rationales and references set forth are applied for rejection under 35 U.S.C. § 103(a).

17. Re. To claim 136, 157: These claims contain similar features as in claim 113.

Therefore, similar rationales and references set forth are applied for rejection under 35 U.S.C. § 103(a).

18. Re. To claim 137: This claim contains similar features as in claim 114.

Therefore, similar rationales and references set forth are applied for rejection under 35 U.S.C. § 103(a).

19. Re. To claims 138, 158: These claims contain similar features as in claim 115. Therefore, similar rationales and references set forth are applied for rejection under 35 U.S.C. § 103(a).

20. Re. To claims 139, 159: These claims contain similar features as in claim 116. Therefore, similar rationales and references set forth are applied for rejection under 35 U.S.C. § 103(a).

21. Re. To claim 140: This claim contains similar features as in claim 117.

Therefore, similar rationales and references set forth are applied for rejection under 35 U.S.C. § 103(a).

22. Re. To claim 141: This claim contains similar features as in claim 118.

Therefore, similar rationales and references set forth are applied for rejection under 35 U.S.C. § 103(a).

23. Re. To claim 142: This claim contains similar features as in claim 119.

Therefore, similar rationales and references set forth are applied for rejection under 35 U.S.C. § 103(a).

24. Re. To claim 143, 160: These claims contain similar features as in claim 120.

Therefore, similar rationales and references set forth are applied for rejections under 35 U.S.C. § 103(a).

25. Re. To claim 144, 161: These claims contain similar features as in claim 121.

Therefore, similar rationales and references set forth are applied for rejections under 35 U.S.C. § 103(a).

26. Re. To claims 145, 162: These claims contain similar features as in claim 122. Therefore, similar rationales and references set forth are applied for rejections under 35 U.S.C. § 103(a).

27. Re. To claim 146: This claim contains similar features as in claim 123.

Therefore, similar rationales and references set forth are applied for rejection under 35 U.S.C. § 103(a).

28. Re. To claims 147: This claim contains similar features as in claim 124.

Therefore, similar rationales and references set forth are applied for rejection under 35 U.S.C. § 103(a).

29. Re. To claim 148: This claim contains similar features as in claim 125.

Therefore, similar rationales and references set forth are applied for rejection under 35 U.S.C. § 103(a).

30. Re. To claim 149: This claim contains similar features as in claim 126.

Therefore, similar rationales and references set forth are applied for rejection under 35 U.S.C. § 103(a).

31. Re. To claim 150: This claim contains similar features as in claim 127.

Therefore, similar rationales and references set forth are applied for rejection under 35 U.S.C. § 103(a).

32. Re. To claim 151, 163: These claims contain similar features as in claim 128.

Therefore, similar rationales and references set forth are applied for rejections under 35 U.S.C. § 103(a).

Conclusion

33. Claims 106-163 are not patentable. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicants are reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

34. Any inquiry concerning this communication or earlier communications from the examiner should be directed to CUONG H. NGUYEN whose telephone number is 703-305-4553. The examiner can normally be reached on 7am - 3:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas G. Black can be reached on 703-305-8233. The fax phone number for the organization where this application is assigned is 703-305-7687.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Cuonghnguyen

CAN
CUONG H. NGUYEN
Primary Examiner
Art Unit 3661